

CCR Sixth Annual Fellows and Young Investigators Retreat
February 28 ~ March 2, 2006, Clarion Fontainebleau Hotel in Ocean City, MD

PROGRAM

Tuesday, February 28, 2006

- 2:00 p.m. **Registration** (*Crystal Ballroom Foyer*) and **Poster Session I Setup** (*Crystal Ballroom Hall 2*)
- 3:30 p.m. **Plenary Session I** (*Crystal Ballroom Hall 1*)
- Opening Remarks and CCR Overview**
Kevin Chang, Ph.D., Vice-Chair, CCR-FYI Steering Committee
- Update on the National Postdoctoral Association (NPA)**
Alyson Reed, Ph.D., National Postdoctoral Association
- FelCom Overview**
Heidi Erickson, Ph.D., National Cancer Institute
- 4:15 p.m. **Keynote Speaker: CCR Office of the Director Address/Open Forum**
Robert Wiltrout, Ph.D., Director, Center for Cancer Research, NCI
Jeffery Strathern, Ph.D., Deputy Director, Gene Regulation and Chromosome Biology Laboratory, CCR
Moderators: Melissa Mederia, Ph.D. and Kwang Suh, Ph.D.
- 5:15 p.m. **Keynote Presentation by a Postdoctoral Fellow: "Inhibition of Human Papillomaviruses"**
Christopher Buck, Ph.D., Laboratory of Cellular Oncology, CCR
Moderators: Martin Guimond, Ph.D. and Jennifer Shen, Ph.D.
- 6:15 p.m. **Dinner** (*Grand Ballroom – First Floor*)
- 7:30 p.m. **Poster Session I** (*Crystal Ballroom Hall 2*)
Pharmacology, Chemistry, and Virology
Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention
Signal Transduction and Gene Transcription
- Career Fair** (check folders for a list of representative companies and recruiters)
- 9:00 p.m. **Informal Mixer** (*Conference Rooms 1-3*)
Mentored Lunch Sign-up (*Registration Desk*)

Wednesday, March 1, 2006

- 7:00 a.m. **Continental Breakfast** (*Crystal Ballroom Foyer*)
Registration Open
- 8:00 a.m. **Plenary Session II** (*Crystal Ballroom Hall 1*)
- Keynote Speaker: "Mind-Body Approaches: Research Priorities and Perspectives for Cancer Survivorship"**
Michael Irwin, M.D., University of California, Los Angeles
Moderators: Heidi Erickson, Ph.D. and Maja Bumke, Ph.D.
- 9:00 a.m. **Break**

- 9:15 a.m. **Concurrent Workshops I**
- 1. Career Development** (*Crystal Ballroom Hall 1*)
Cem Elbi, M.D., Ph.D., Merck Research Laboratories
Barbara Vonderhaar, Ph.D., National Cancer Institute
Garth Fowler, Ph.D., ScienceCareers.org/Science's Next Wave
Mark Edwards, NIH Work/Life Center
Moderators: Girish Patel, M.D., and Joseph Manimala, Ph.D.
 - 2. Grant Writing** (*Conference Rooms 4-6*)
"Training and Career Development Award Opportunities at NCI"
David Eckstein, Ph.D., Cancer Training Branch, NCI
"Peer Review of NIH Grant Applications"
Robert E. Bird, Ph.D., Resources and Training Review Branch, NCI
Moderators: Haiqing Li, M.D., Ph.D., and Melissa Maderia, Ph.D.
- 10:30 a.m. **Concurrent Workshops II**
- 1. Setting up a Laboratory** (*Crystal Ballroom Hall 1*)
Jerry M. Boss, Ph.D., Emory University School of Medicine
Melinda Merchant, M.D., Ph.D., Memorial Sloan-Kettering Cancer Center
Moderators: Nicole LaRonde-LeBlanc, Ph.D., and Swati Choksi, Ph.D.
 - 2. Entrepreneurial Skills and Opportunities** (*Conference Rooms 4-6*)
John Holaday, Ph.D., Montgomery Pacific Group and EntreMed Founder
Shira Kramer, Ph.D., President, Sterilex Corporation
Tania Fernandez, Ph.D., Analyst Burrill and Company
Moderators: Val Bliskovsky, Ph.D., and Kevin Chang, Ph.D.
- 12:00 p.m. **Mentored and General Lunch** (*Grand Ballroom-First Floor*)
Oral Presentation I Setup
- 12:30 p.m. **Luncheon Keynote Speaker: "The Future of Cancer Drug Discovery"**
John Niederhuber, M.D., Deputy Director for Translational and Clinical Sciences, NCI
Moderators: Melissa Maderia, Ph.D., and Arti Santhanam, Ph.D.
- 1:45 p.m. **Plenary Session III** (*Crystal Ballroom Hall 1*)
- Keynote Speaker: "Mouse Tales and Cancer"**
Jeffrey E. Green, M.D., Laboratory of Cell Regulation and Carcinogenesis, CCR, NCI
Moderators: Swati Choksi, Ph.D., and Tamaro Hudson, Ph.D., M.P.H.
- 2:45 a.m. **Break**
- 3:00 p.m. **Concurrent Oral Presentations I**
- 1. Pharmacology, Chemistry, and Virology** (*Conference Room 1*)
Moderators: Howard Young, Ph.D., and Dian Sigano, Ph.D.

Maria Comin, Laboratory of Molecular Chemistry
Exploring the Herpes Thymidine Kinase Landscape with Conformationally Locked Nucleosides

Philip Lorenzi, Laboratory of Molecular Pharmacology
Asparagine Synthetase as a Biomarker for L-Asparaginase Activity in Ovarian Cancer

Kentaro Takada, Molecular Targets Development Program
New Members of the Chondropsin Class of V-ATPase Inhibitory Marine Macrolides

Andrew Jobson, *Laboratory of Molecular Pharmacology*
Identification and Characterization of Putative Chk2 Inhibitors

Kyeongeun Lee, *HIV Drug Resistance Program*
HIV-1 Cell Killing Blocked by Pre-mRNA Factor CPSF6

2. Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention I

(Conference Rooms 4-6)

Moderators: Gleen Merlino, Ph.D., and Oliver Sordet, Ph.D.

Praveen Arany, *Laboratory of Cell Regulation and Carcinogenesis*
Smad3 Deficiency Alters Key Structural Elements of the Extracellular Matrix and Mechanotransduction of Wound Closure

Xiaoyi Teng, *Laboratory of Cellular Carcinogenesis and Tumor Promotion*
Filament Organization and Induces Cell Death in Mouse Tumor Keratinocytes

Connie Matthews, *Laboratory of Cancer Prevention*
Prevention of Human Papillomavirus (HPV) E7-Driven Tumorigenesis by Dominant-Negative AP-1 (TAM67): Cox-2, OPN, and Hmga2 Are Important Targets

Paul Sirajuddin, *Laboratory of Cellular Carcinogenesis and Tumor Promotion*
Semi-Quantitation of Polycyclic Aromatic Hydrocarbon (PAH)-DNA Adducts in Human Placenta by Immunohistochemistry (IHC) and the Automated Cellular Imaging System (ACIS)

Christina Stuelten, *Laboratory of Cell Regulation and Carcinogenesis*
Effect of Wounding on Tumor Growth and Metastasis

3. Signal Transduction and Gene Transcription (Conference Room 3)

Moderators: Phillip Dennis, M.D., Ph.D., and Frank Comer, Ph.D.

Juhong Liu, *Laboratory of Pathology*
The FUSE/FBP/FIR/TFIIH System Is a Molecular Machine that Programs a Pulse of c-myc Expression

Jianjian Zhu, *Laboratory of Pathology*
Temporal Requirement of Sonic Hedgehog Expression for Specifying Digit Identity

Jui Pandhare, *Laboratory of Comparative Carcinogenesis*
A Potential Role for the Redox Enzyme Proline Oxidase in mTOR-AMPK Signaling Pathway

Jan Markus, *Laboratory of Cellular Oncology*
CBF β -SMMHC Transcriptionally Represses Tumor Suppressor p15INK4B in Acute Myeloid Leukemias with inv(16)

Gillian Whittaker, *Laboratory of Experimental Immunology*
A Novel System for the Study of DAP12 Signaling in the Myeloid Compartment

4. Molecular and Cellular Biology I (Crystal Ballroom Hall 1)

Moderators: Jeffrey Strathern, Ph.D., and Cyril Berthet, Ph.D.

Sanita Bharti, *Laboratory of Cellular Oncology*
ASAP1 Affects the Formation and Function of Invadopodia

Jeff Isenberg, *Laboratory of Pathology*

Thrombospondin-1 Inhibits Endothelial Cell Responses to Nitric Oxide in a cGMP-Dependent Manner

Hu-Liang Jia, *Laboratory of Human Carcinogenesis*

Gene Expression Profiling Reveals Potential Biomarkers of Human Hepatocellular Carcinoma Including Those with Negative Alpha-Fetoprotein and Smaller Tumors

Yifeng Jia, *Laboratory of Pathology*

The Role of CD151 Phosphorylation in Integrin $\alpha 3 \beta 1$ -Mediated Human Breast Cancer Metastasis

Yin Liu, *Experimental Immunology Branch*

PKC-Delta's Independence of Activation Loop Phosphorylation: Structural Basis and Limitations of *In Vivo* Function

4:45 p.m. **Plenary Session IV** (*Crystal Ballroom Hall 1*)

Keynote Speaker: Nanotechnology

Mauro Ferrari, Ph.D., *Ohio State University*

Moderators: Arti Santhanam, Ph.D., and Joseph Manimala, Ph.D.

5:45 p.m. **Dinner** (*Grand Ballroom-First Floor*)

6:45 p.m. **Poster Session II** (*Adams Ballroom*)

Molecular and Cell Biology

Genomics, Proteomics, and Bioinformatics

Clinical and Translational Research

Immunology and Genetics

Career Fair (Check folders for a list of representative companies and recruiters)

Thursday, March 2, 2006

7:00 a.m. **Continental Breakfast** (*Crystal Ballroom Foyer*)
Registration Open

8:00 a.m. **Plenary Session V** (*Crystal Ballroom Hall 1*)

Keynote Speaker: "Anti-Vascular Therapy of Cancer Metastasis"

Cheryl Hunt Baker, Ph.D., *Cancer Research Institute*

Moderators: Jennifer Shen, Ph.D., and Heidi Erickson, Ph.D.

9:00 a.m. **Break**

10:45 a.m. **Concurrent Oral Presentations II**

5. Molecular and Cellular Biology II (*Crystal Ballroom Hall 1*)

Moderators: Philipp Kaldis, Ph.D., and Jennifer Shen, Ph.D.

Michael Rosu-Myles, *Laboratory of Cellular Oncology*

P15Ink4b Regulates Erythroid-Myeloid Cell Fate Determination

Jessica Cassavaugh, *Pediatric Oncology Branch*

Ezrin, the Cytoskeleton Linker Protein Coordinates Cap-Dependent Translation During Metastasis

Christine Horak, *Laboratory of Molecular Pharmacology*

Nm23-H1 Mediates Metastasis Suppression through the Receptors Edg2 and c-Met in MDA-MB-435 Cells

Amy Mckee, *Pediatric Oncology Branch*

Trk B: Invasion, Metastasis, and Angiogenesis in Neuroblastoma

Atsushi Terunuma, *Dermatology Branch*

A Novel *In Vivo* Competitive Repopulation Assay Demonstrates that “Side Populatin” Keratinocytes Resembling Hematopoietic SP Stem Cells Do Not Exhibit Stem Cell Behavior

6. Genomics, Proteomics, and Bioinformatics; and Clinical and

Translational Research Combined (*Conference Room 1*)

Moderators: Jeff Gildersleeve, Ph.D., and Joseph Manimala, Ph.D.

Philip Martin, *Comparative Molecular Pathology Unit*

Gene Expression Profiling in a Temporally Regulated Conditional Cardiac-Specific H-Ras-v12 Model of Hypertrophic Cardiomyopathy

Gerhard S. Munding, *Surgery Branch*

Comparative Quantitative Analysis for Proteomic Profiling Using Reverse Phase Protein Microarrays

Ai-Min Hui, *Neuro-Oncology Branch*

Targeting NF- κ B in Gliomas: Translation from Bench to Bedside

Alison Rager, *Pediatric Oncology Branch*

Rapid Immune Reconstitution and Complete Donor Chimerism after Non-Myeloablative Allogeneic Peripheral Blood Stem Cell Transplantation (NMSCT) in Pediatric Patients (pts) with Malignancy

Jean-Philippe Therrien, *Dermatology Branch*

Development of a Genetically Modified Human Skin Equivalent to Deliver Therapeutic Proteins Systemically

7. Immunology and Genetics (*Conference Room 3*)

Moderators: Dimitar Dimitrov, Ph.D., and Elena Ambrosino, Ph.D.

Benyam Asefa, *Laboratory of Molecular Immunoregulation*

Regulation of T-Cell Homeostasis: Investigating the Possible Interaction between the IL-7 and TCR Signaling Pathways

Cristina Bergamaschi, *Vaccine Branch*

Modulation of SIV Antigens by Generating Fusion Protein with Lysosomal-Associated Membrane Protein-1 (LAMP-1)

David Grindler, *Pediatric Oncology Branch*

Elevated IL-7 During Lymphopenia Does Not Results from Increased Production of the Cytokine by the Stroma Cells

Sarah Herby, *Pediatric Oncology Branch*

Mild GVHD Impairs Vaccine Responses in an Allogeneic Bone Marrow Transplant Setting

Trina Stewart, *Laboratory of Tumor Immunology and Biology*

Tumor-Induced Down-Regulation of Interferon Consensus Sequence Binding Protein (ICSBP) in CD11b⁺Gr1⁺ Myeloid Suppressor Cells May Underlie a Mechanism for Their Aberrant Expansion

and Function

8. Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention II (*Conference Rooms 4-6*)
Moderators: Jeffrey Green, M.D., and M. Margaret Pratt, Ph.D.

Tamara Hudson, *Laboratory of Cell Regulation and Carcinogenesis*
Alternate Chemopreventive Mechanisms of Action of Resveratrol and Muscadine Grape Skin Extract in Prostate Cancer

Stacey DaCosta Byfield, *Laboratory of Cell Regulation and Carcinogenesis*
Extracellular Matrix: A Gatekeeper in the Transition from Dormancy to Metastasis

Dalit Barkan, *Laboratory of Cell Regulation and Carcinogenesis*
Extracellular Matrix: A Gatekeeper in the Transition from Dormancy to Metastasis

David Mack, *Mammary Biology and Tumorigenesis Laboratory*
Gene Expression Profiling Suggests Tumorigenic Mechanisms of Truncated Int6/eIF3e in Mammary Alveolar Hyperplasias and Tumors

Xuezhong Yang, *Pediatric Oncology Branch*
Novel Tumor Suppressor Gene, hCas, Inhibits Neuroblastoma Tumorigenicity

10:45 a.m. **Break**

11:00 a.m. **Concurrent Workshops III**

1. Alternative Careers in Sciences (*Crystal Ballroom Hall 1*)
Moderators: Gillian Whittaker, Ph.D., and Arti Santhanam, Ph.D.

“Technology Transfer as a Career”
Thomas Stackhouse, Ph.D., *Technology Transfer Branch, NCI*

“A Career in Policy”
Achal Bhatt, Ph.D., *Center for Disease Control*

“Forensic Science Career”
Raymond Harris, Sc.D., D.Med., *Forensic Science Program,*
Prince George’s Community College

“From Laboratory to Classroom”
Russell Wright, Ed.D., *Montgomery County Public Schools*

2. Negotiation Skills and Conflict (*Conference Rooms 4-6*)
Howard Gadlin, Ph.D., *NIH Office of the Ombudsman*
Doris Campos-Infantino, *NIH Office of the Ombudsman*
Moderators: Girish Patel, M.D., and Joseph Manimala, Ph.D.

12:15 p.m. **Mentored and General Lunch with Travel Awards** (*Grand Ballroom – First Floor*)

1:30 p.m. **Questionnaire and Closing Comments from the Retreat Committee**

1:45 p.m. **Adjourn**

2006 CCR Fellows and Young Investigators Retreat

Travel Award Winners

Congratulations!

Eight \$1,000 Travel Awards

Sponsored by the CCR Office of the Director

Outstanding Oral Presentations

Cristina Bergamaschi
Stacey DaCosta Byfield
Ai-Min Hui
Atsushi Terunuma

Outstanding Poster Presentations

Scott Martin
Frank Comer
Lauren Shapiro
V. Ashutosh Rao